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Eğitim Bilgileri

Doktora, University Of Illinois At Chicago, Amerika Birleşik Devletleri 1999 - 2004

Yüksek Lisans, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), Türkiye 1996 - 1999

Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Türkiye 1992 - 1996

Yabancı Diller

İngilizce, C1 İleri

Yaptığı Tezler

Doktora, New Techniques in the Design, Analysis and Optimization of Tuned Dynamic Vibration Absorbers, University Of Illinois At Chicago, 2004

Yüksek Lisans, new Method on Identification of Symmetrical Non-linearities in Structures, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), 1999

Araştırma Alanları

Makina Mühendisliği, Makina Teorisi ve Dinamiği

Akademik Unvanlar / Görevler

Doç.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, 2017 - Devam Ediyor

Yrd.Doç.Dr., Tobb Ekonomi Ve Teknoloji Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2011 - 2017

Öğretim Görevlisi, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği, 2010 - 2011

Yönetilen Tezler

ÖZER M. B. , Haberleşme uydusu üzerine yerleştirilmiş gregoryen tipindeki haberleşme antenlerinin titreşim ve akustik sayısal analizleri, Yüksek Lisans, O.Kaan(Öğrenci), 2020

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- II. **A Novel Artificial Pancreas: Energy Efficient Valveless Piezoelectric Actuated Closed-Loop Insulin Pump for T1DM**
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- III. **Investigation of effect of design and operating parameters on acoustophoretic particle separation via 3D device-level simulations**
Sahin M. A. , ÇETİN B., ÖZER M. B.
MICROFLUIDICS AND NANOFUIDICS, cilt.24, sa.1, 2019 (SCI İndekslerine Giren Dergi)
- IV. **Tracking free surface and estimating sloshing force using image processing**
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- V. **An integrated acoustic and dielectrophoretic particle manipulation in a microfluidic device for particle wash and separation fabricated by mechanical machining**
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- VI. **Closed form solutions of weakly nonlinear multi-degree of freedom systems with single nonlinear element**
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- VIII. **Microfluidic bio-particle manipulation for biotechnology**
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- IX. **Identification of structural non-linearities using describing functions and the Sherman-Morrison method**
Ozer M. B. , ÖZGÜVEN H. N. , Royston T. J.
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- X. **Experimental and computational models for simulating sound propagation within the lungs**
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- XI. **Boundary element model for simulating sound propagation and source localization within the lungs**
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Ozer M. B. , Royston T.
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- XIV. **Passively minimizing structural sound radiation using shunted piezoelectric materials**
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Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Computational fluid dynamics and proper orthogonal decomposition based control of flow over supersonic cavities**
Gelisi K. A. , Aradag S., Tascioglu Y., ÖZER M. B.
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- II. **EXPERIMENTAL INVESTIGATION OF FLIGHT AND PHYSICAL PARAMETERS AFFECTING THE VIBRATION RESPONSE SEVERITY OF SUBSYSTEM CARRIED BY JET AIRCRAFT**
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SÜLEYMAN B., ÇETİN B., ÖZER M. B.
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- VI. **Fabrication of microfluidic devices for dielectrophoretic and acoustophoretic applications using high precision machining**
SOHEİLA Z., ÇETİN B., ÖZER M. B. , SÜLEYMAN B.
16th International Conference on Machine Design and Production, 30 Haziran - 03 Temmuz 2014
- VII. **Medikal şırınga pompası**
ONUR G., AHMET BAHADIR A., KARA S., EREN CAN E., TAŞCIOĞLU Y., ÖZER M. B.
5. Ulusal Mekatronik Mühendisliği Öğrenci Kongresi, Türkiye, 24 Mayıs 2014
- VIII. **Mekanum tekerlekli araç tasarımı ve üretimi**
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- IX. **SIMULATION OF FLUID SLOSHING FOR DECREASING THE RESPONSE OF STRUCTURAL SYSTEMS**

VURUSKAN I., SERT C., Ozer M. B.

12th ASME Biennial Conference on Engineering Systems Design and Analysis (ESDA2014), Copenhagen, Danimarka, 25 - 27 Haziran 2014

- X. **Simulation of an integrated microfluidic device for bioparticle wash separation and concentration**
ÇETİN B., SÜLEYMAN B., SOHEİLA Z., ÖZER M. B.
ASME 2013 4th Micro/Nanoscale Heat & Mass Transfer International Conference, 11 - 14 Aralık 2013
- XI. **Chatter detection using vibrational and acoustic emissions in turning process**
SÜLEYMAN B., KILIÇ Ş., ÖZER M. B., ÜNVER H. Ö.
20th Int. Conf. on Mechatronics and Machine Vision in Practice- M2ViP, 18 - 20 Eylül 2013
- XII. **Design and testing of an earthquake simulation system**
SÜLEYMAN B., KOÇ Ç., ŞEYMA NUR Ç., ÇAĞRI G., ÖZER M. B.
20th Int. Conf. on Mechatronics and Machine Vision in Practice- M2ViP, 18 - 20 Eylül 2013
- XIII. **Piezoelektrik medikal pompa**
YILMAZ M., UFUK T., BİLAL BURAK D., TAŞCIOĞLU Y., ÖZER M. B.
4. Ulusal Mekatronik Mühendisliği Öğrenci Kongresi, Türkiye, 08 Haziran 2013
- XIV. **A numerically efficient frequency domain method for analysis of non Linear multi degree of freedom systems**
ÖZER M. B.
ASME 2012 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference IDETC/CIE, 12 - 15 Ağustos 2012
- XV. **Experimental and computational models for simulating sound propagation and acoustic source localization within the lungs**
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- XVI. **Radiation force of ultrasound as shear wave source in Microscopic Magnetic Resonance Elastography**
ÖZER M. B., Othman S., XU H., MERAL C., ROYSTON T. J., MAGIN R. L.
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- XVII. **Computational and experimental models for sound transmission in the pulmanory system and chest to aid in medical diagnostics**
AÇIKGÖZ S., ROYSTON T. J., ÖZER M. B., MANSY H. A., SANDLER R. H.
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- XVIII. **Identification of structural non linearities using describing functions and Sherman Morrison matrix inversion method**
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- XIX. **A new method for localization and identification of non linearities in structures**
ÖZER M. B., ÖZGÜVEN H. N.
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- XX. **Applications of Sherman Morrison matrix inversion formula in linear and non linear vibrations controls and acoustics**
ÖZER M. B., ROYSTON T. J.
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- XXI. **Active passive single and multi modal control of structural sound using piezoceramics and the effects of PZT hysteresis**
ÖZER M. B., ROYSTON T. J.
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- XXII. **Optimal passive and hybrid control of vibrations and sound radiation from linear and non linear PZT based smart structures**
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Ozer M. B. , Royston T.
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- XXIV. **Effect of piezoceramic hysteresis in passive and hybrid structural acoustic control**
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- XXV. **Modeling the effect of piezoceramic hysteresis in structural vibration control**
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Atıflar

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